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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/897,042	07/03/2001	Rudolf Valenta	1614-0251P	5581
24256 7	590 07/19/2004		EXAM	INER
DINSMORE & SHOHL, LLP			NOLAN, PATRICK J	
1900 CHEMED CENTER 255 EAST FIFTH STREET			ART UNIT	PAPER NUMBER
CINCINNATI,			1644	
			DATE MAILED: 07/19/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/897,042 VALENTA ET AL.					
Office Action Summary	Examiner	Art Unit				
omoo, touch culturally	Patrick J. Nolan	1644				
The MAILING DATE of this communication app						
Period for Reply		·				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl' - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS cause the application to become ABAN	be timely filed 0) days will be considered timely. 6 from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 M	<i>lay 2004</i> .					
	_					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 24-31 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 28,30 and 31 is/are rejected. 7) Claim(s) 25-27 and 29 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine	wn from consideration. or election requirement.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) The oath or declaration is objected to by the E	xaminer. Note the attached C	office Action of form F 10-132.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Appority documents have been re nu (PCT Rule 17.2(a)).	lication No ceived in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No(s)/I	nmary (PTO-413) Mail Date rmal Patent Application (PTO-152)				

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1. Claims 25-31 are pending.

2. Applicant's after-final received 5-11-04 has been entered. A new non-final rejection is set forth below.

Claim rejections 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 28 and 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ferreira et al., newly cited, in view of U.S. Patent 4,269,764, and U.S. Patent 6,126,939, both of record.

Ferreira et al., specifically teaches the use of recombinantly produced non-anaphylactic Bet v 1 proteins in the treatment of Bet v1 allergy, see pages 606-607 and 600 in particular.

The claimed invention differs from the prior art teachings by using a polymerized allergen that has a peptide linker that is hydrophilic. However, the '764 patent teaches that polymerization of allergens produces immunogenic allergens that have markedly reduced allergenicity (column 1-2, in particular). The markedly reduced allergenicity of the polymerized allergen would have the expected property of being non-anaphylactic, since a heightened allergic response is a prerequisite of allergen mediated anaphylaxis and, the '939 patent teaches immunogens comprising polymers of peptides linked by a hydrophilic oligopeptide linker (i.e. "a

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short stretch of alanine residues" which are hydrophilic) to treat or ameliorate inflammation associated with allergic reactions; see column 9, paragraphs 2-4; and column 11, paragraph 2 in particular).

One of ordinary skill in the art at the time the invention was made would have been motivated to polymerize the Bet v 1 allergen, as taught by the Ferreira et al., because polymerized allergens show reduced allergenicity as taught by the '764 patent and use peptide linkers to polymerize a protein using hydrophilic amino acids, as taught by the '939 patent because the polymerized allergens linked by hydrophilic amino acids show reduced allergenicity as taught by the '939 patent. From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole is <u>prima facie</u> obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references.

- 4. Claims 29 and 25-27 are objected to as being dependent upon rejected claims.
- 5. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.
- 6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick Nolan whose telephone number is 571-272-0847.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Christina Chan, can be reached at 571-272-0841.

Patrick J. Nolan, Ph.D.

Primary Examiner, Group 1640

July 13, 2004